

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-117164

(43)Date of publication of application : 02.05.1997

(51)Int.Cl.

H02N 1/00
H01L 21/306
H01L 29/84
H01L 49/00

(21)Application number : 08-198777

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(22)Date of filing : 29.07.1996

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(30)Priority

Priority number : 95 510924 Priority date : 03.08.1995 Priority country : US

(54) MECHANICAL STRUCTURE COMPOSED OF PLURALITY OF MICROSTRUCTURE LAYERS AND ITS MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To extensively apply the existing micromachine technology and thereby manufacture a machine which can perform a good job by forming a mechanical structure which includes a stack structure in which a plurality of layers are stacked and including movable member demarcated from a microstructure in at least one layer of the stack structure.

SOLUTION: A pattern is formed on a substrate 12 using a mask and then a micromachine layer 10 is formed a microstructure constituted of a stator structure 16 and a rotor structure 18 which are demarcated by a hole 20 surrounding a hub 22 and a groove 14 is formed. The stator structures 16 and the rotor structures 18 are stacked to form an electrostatic motor of a stack structure constituted of a plurality of layers. By fabricating a machine by stacking, machines of micrometers, millimeters, and centimeters in size can be manufactured.

